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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/787,160	02/27/2004	Kang Soo Seo	1740-000087/US	4609

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EXAMINER
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VENT, JAMIE J

ART UNIT	PAPER NUMBER
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2621

MAIL DATE	DELIVERY MODE
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04/04/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/787,160	<b>Applicant(s)</b> SEO ET AL.	
	<b>Examiner</b> JAMIE JO VENT	<b>Art Unit</b> 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 29 February 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-40 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 29, 2008 has been entered.

### ***Response to Arguments***

2. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection in further view of Van Ryzin (US 6,393,430).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nonomura et al (US 5734788) in view of Gunji (US 2002/0126994) in further view of Tagawa et al (US 6,615,192) in further view of Van Ryzin (US 6,393,430).

**[claim 1]**

In regard to Claim 1 Nonomura et al discloses a computer readable medium having a data structure for managing random shuffle reproduction of video data recorded on the recording medium (Figures 7b and 0 show the random and shuffle reproduction of the playlist) the data structure including:

- A stream directory area storing at least one clip containing video data associated with the playlist (Figure 2a shows the volume area where the digital data is stored as seen on Column 6 Lines 15-24); however fails to disclose
  - A playlist directory area storing at lease one playlist including the clip, the playlist including one playitem representing the playing interval of the clip;
  - Wherein the title management information file includes at least one segment that is associated with at least one playlist in the playlist directory area and the title management information file is allocated in a given directory different from the playlist directory.

Gunji et al discloses a recording medium having a data structure for managing and reproducing video data. As further seen in Figure 6 the playlist directory includes playlist identifiers that allows for one segment of the title information to be directed to one specific playitem. The management of the playlist information as provided by the playlist directory allows for specific storage and editing of the play item that is associated with the playlist and thereby creates a more efficient editing process.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the

invention to use the recording medium having random and shuffle reproduction, as disclosed by Nonumura et al, and further teach the system to provide managing properties to one specific playitem, as taught by Gunji et al, to allow for an effective editing system.

Nonumura et al in view of Gunji et al discloses a system containing management data; however fails to disclose management directories associated with each playlist. Tagawa discloses a system wherein information is stored on various directories as seen in Figure 6. The management information, playlist information and other track information are each separately stored in different directories as further described in Column 9 Lines 34+ and additionally seen in Figure 10. The storing of information in different directories provides faster reproduction as well as providing a more efficient and safe system wherein data is more difficult to become corrupted. Additionally, it is disclosed the title management files contain segments wherein title management file contains segments as described in Column 9 Lines 35+. The use of title management information throughout the segments provide for efficient storage and processing of the content through management lds (Column 2 Lines 55+). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to use the managing of random shuffle reproduction, as disclosed by Nomomura, and further incorporate a system that associates playitems and playlists, as taught by Gunji et al, and further incorporate the data being stored in different directories, as disclosed by Tagawa et al, to allow for more efficient and proper storage of data associated with each playlist.

Nonumura et al in view of Gunji et al in further view of Tagawa discloses a management system for playlist items; however, fails to disclose the playlist includes at least one playitem representing the playing interval of the clip. Van Ryzin discloses a system wherein time intervals are associated with the playlist items as seen in Figure 3. The intervals are used for recording and reproducing purposes within the recording of the playlist items (Column 4 Lines 28-52). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use the managing system for playlist items, as disclosed by Nonumura et al in view of Gunji et al in further view of Tagawa, and further incorporate a method for determining intervals within the recorded playlist items, as taught by Van Ryzin, to provide for proper and detailed recording.

**[claim 2]**

In regard to Claim 2, Nonomura et al discloses a recording medium wherein a title managed by the title management information file is a logical unit of video data that is regarded as a reproduction unit by users (Figure 3b shows the title management information that stores the DVD data as video titles as described in Column 6 Lines 49-67).

**[claim 3]**

In regard to Claim 3, Nonomura et al discloses a recording medium wherein the title management file includes information on branch points information has segments, at which reproduction path is divided during reproduction (Column 9 Lines 43-68 describes the branch points and segments assigned to the reproduction paths as further described in Figure 7b).

**[claim 4]**

In regard to Claim 4, the claim limitations have been previously recited in Claim 3.

**[claim 5]**

In regard to Claim 5, Nonomura et al discloses a recording medium wherein the segments assigned to different reproduction paths are associated with a plurality of distinct playlist that are associated with distinct clips or disjoint intervals of one clip (Figure 8 shows the various clips wherein the VOB are the clips that are associated with the playlist as further described in Column 10 Lines 20-30 and thereby producing distinct/disjoint clips).

**[claim 6]**

In regard to Claim 6, the claim limitations have been previously recited in Claim 5.

**[claim 7]**

In regard to Claim 7, Nonomura et al discloses a recording medium wherein a plurality of play items and the storing of random/shuffle block in the title management information wherein reproduction can occur with either a standard reproduction mode or a random/shuffle reproduction mode (Figures 7b and 0 show the title management information and it is further described in Column 9 Lines 43-Column 11 Line 30 the various reproduction modes that can occur).

**[claim 8]**

In regard to Claim 8, the claim limitations have been previously discussed in Claim 7.

**[claim 9]**

In regard to Claim 9, the claim limitations have been previously discussed in Claim 7.

**[claim 10]**

In regard to Claim 10, the claim limitations have been previously discussed in Claim 7.

**[claim 11]**

In regard to Claim 11, the claim limitations have been previously recited in Claim 5.

**[claim 12]**

In regard to Claim 12, the claim limitations have been previously discussed in Claim 1.

**[claim 13]**

In regard to Claim 13, the claim limitations have been previously discussed in Claim 1.

**[claim 14]**

In regard to Claim 14, Nonomura et al discloses a method for reproducing a recording medium having a data structure for managing random/shuffle reproduction of video data, as discussed independent Claims 1, 12, 13, with the additional limitations:

- Drive for driving an optical recording means that records data on the recording medium (Figure 11 shows an optical disk drive 16 wherein an optical disk drive controlling unit 83 for controlling the drive and the data as further discussed in Column 12 Lines 58+ through Column 13 Lines 1-6).

**[claim 15]**

In regard to Claim 15, the claim limitations have been previously discussed in Claim 14.

**[claim 16]**

In regard to Claim 16, Nonomura et al discloses a method for reproducing a recording medium; however, fails to disclose that a given directory is a title directory area. Lamkin



et al discloses a system wherein information is stored on various directories as seen in Figure 10. The management information, playlist information and other track information are each separately stored in different directories as further described in Column 7 Lines 23-51 such as title directory area. The storing of information in different directories provide faster reproduction as well as providing a more efficient and safe system wherein data is more difficult to become corrupted. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to use the managing of random shuffle reproduction, as disclosed by Nomomura, and further incorporate the data being stored in different directories, as disclosed by Katz et al.

**[claim 17]**

In regard to Claim 17, the claim limitations have been previously discussed in Claim 16.

**[claim 18]**

In regard to Claim 18, the claim limitations have been previously discussed in Claim 16.

**[claim 19]**

In regard to Claim 19, the claim limitations have been previously discussed in Claim 16.

**[claim 20]**

In regard to Claim 20, the claim limitations have been previously recited in Claim 16.

**[claim 21]**

In regard to Claim 21, Nomonura et al discloses a title that is a logical unit of data managed by title management information file as a reproduction unit (Figure 6 shows title management information).

**[claim 22]**

In regard to Claim 22, Nomonura et al discloses a method for dividing information on branch points in the title management file during reproduction (Figure 6 shows the various branch points as well as figure 10).

**[claim 23]**

In regard to Claim 23, Nomonura et al discloses a method wherein random/shuffle reproduction of one playlist (Figure 7a and 7b).

**[claim 24]**

In regard to Claim 24, the claim limitations have been recited in Claim 23.

**[claim 25]**

In regard to Claim 25, Nomonura et al discloses a method associating playitem with clip of information from the clip information directory (Figure 2a shows the volume area where the digital data is stored as seen on Column 6 Lines 15-24).

**[claim 26]**

In regard to Claim 26, the claim limitations have been recited in Claim 21.

**[claim 27]**

In regard to Claim 27, the claim limitations have been recited in Claim 22.

**[claim 28]**

In regard to Claim 28, the claim limitations have been recited in Claim 23.

**[claim 29]**

In regard to Claim 29, the claim limitations have been recited in Claim 23.

**[claim 30]**

In regard to Claim 30, the claim limitations have been recited in Claim 25.

**[claim 31]**

In regard to Claim 31, the claim limitations have been recited in Claim 21.

**[claim 32]**

In regard to Claim 32, the claim limitations have been recited in Claim 22.

**[claim 33]**

In regard to Claim 33, the claim limitations have been recited in Claim 23.

**[claim 34]**

In regard to Claim 34, the claim limitations have been recited in Claim 21.

**[claim 35]**

In regard to Claim 27, the claim limitations have been recited in Claim 25.

**[claim 36]**

In regard to Claim 36, the claim limitations have been recited in Claim 21.

**[claim 37]**

In regard to Claim 37, the claim limitations have been recited in Claim 22.

**[claim 38]**

In regard to Claim 38, the claim limitations have been recited in Claim 23.

**[claim 39]**

In regard to Claim 39, the claim limitations have been recited in Claim 21.

**[claim 40]**

In regard to Claim 40, the claim limitations have been recited in Claim 25.

***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Lamkin et al (US 2004/0220791).

#### **Contact Information**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMIE JO VENT whose telephone number is (571)272-7384. The examiner can normally be reached on 7:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on 571-272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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